

Anti-GFRA1 Picoband Antibody

Catalog # ABO11893

Product Information

Application	WB, IHC-P
Primary Accession	P56159
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for GDNF family receptor alpha-1(GFRA1) detection. Tested with WB, IHC-P in Human.

Reconstitution Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	2674
Other Names	GDNF family receptor alpha-1, GDNF receptor alpha-1, GDNFR-alpha-1, GFR-alpha-1, RET ligand 1, TGF-beta-related neurotrophic factor receptor 1, GFRA1, GDNFRA, RETL1, TRNR1
Calculated MW	51456
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat Western blot, 0.1-0.5 µg/ml, Human
Subcellular Localization	Cell membrane ; Lipid-anchor, GPI-anchor .
Source	Eukaryota
Protein Name	GDNF family receptor alpha-1
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Immunogen	E.coli-derived human GFRA1 recombinant protein (Position: D25-Q227). Human GFRA1 shares 97% amino acid (aa) sequence identity with both mouse and rat GFRA1.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated

freezing and thawing.

Protein Information

Name	GFRA1
Synonyms	GDNFRA, RETL1, TRNR1
Function	Coreceptor for GDNF, a neurotrophic factor that enhances survival and morphological differentiation of dopaminergic neurons and increases their high-affinity dopamine uptake (PubMed: 10829012 , PubMed: 31535977). GDNF-binding leads to autophosphorylation and activation of the RET receptor (PubMed: 31535977).
Cellular Location	Cell membrane {ECO:0000250 UniProtKB:Q62997}; Lipid-anchor, GPI-anchor {ECO:0000250 UniProtKB:Q62997}. Golgi apparatus, trans-Golgi network {ECO:0000250 UniProtKB:Q62997}. Endosome {ECO:0000250 UniProtKB:Q62997}. Endosome, multivesicular body {ECO:0000250 UniProtKB:Q62997}. Note=Localizes mainly to the plasma membrane. In the presence of SORL1, shifts to vesicular structures, including trans-Golgi network, endosomes and multivesicular bodies {ECO:0000250 UniProtKB:Q62997}

Background

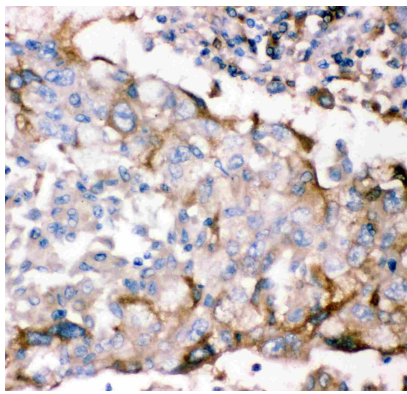
GDNF family receptor alpha-1 (GFR α 1), also known as the GDNF receptor or GFRA1, is a protein that in humans is encoded by the GFRA1 gene. It is mapped to chromosome 10q25.3. The protein encoded by this gene is a member of the GDNF receptor family. GFRA1 is released by neuronal cells, Schwann cells, and injured sciatic nerve. It is a glycosylphosphatidylinositol(GPI)-linked cell surface receptor for both GDNF and NTN, and mediates activation of the RET tyrosine kinase receptor. This gene is also a candidate gene for Hirschsprung disease. Soluble GFRA1 mediates robust recruitment of RET to lipid rafts via a mechanism requiring the RET tyrosine kinase.

Images



Anti- GFRA1 antibody, ABO11893, Western blottingAll lanes: Anti GFRA1 (ABO11893) at 0.5ug/mlWB: Recombinant Human GFRA1 Protein 0.5ngPredicted bind size: 39KDObserved bind size: 39KD

Anti- GFRA1 antibody, ABO11893, IHC(P)IHC(P): Human Lung Cancer Tissue



Anti- GFRA1 antibody, ABO11893, Western blotting
lanes: Anti GFRA1 (ABO11893) at 0.5ug/ml
WB: Human Placenta Tissue Lysate at 50ug
Predicted bind size: 51KD
Observed bind size: 51KD

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.